Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Canceled)

2. (Currently Amended) A method of vasodilating a human blood vessel *in vitro*, the method comprising exposing *in vitro* an isolated blood vessel to be implanted into a human patient to a physiologically acceptable solution that comprises:

between 0.1 and 100 millimolar concentration of an exogenous substrate for an SSAO enzyme wherein the exogenous substrate has a chemical formula of

$$R_1\text{--}X_1\text{--}NH_2$$

wherein R_1 is selected from H, OH, NH_2, and COOH, and wherein

(a) X_1 is an alkyl having between one and twelve carbons,

(b) X_1 is a C_6 aromatic ring, or

(c) X_1 comprises a single C_6 aromatic ring and further comprises between one and eleven alkyl carbons; and,

a buffer having an osmolarity in the range of about 280 to about 350 millimolar that buffers the solution to maintain a pH in the range of about 7.0 to about 7.8.

3. (Original) The method of claim 2 wherein X_1 is CH_2.

4. (Canceled)

5. (Currently Amended) The method of claim 3 wherein X_1 is CH_2, and wherein R_1 is H, whereby the substrate has the formula CH_3HN_2.

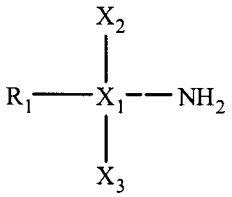
6. (Withdrawn) The method of claim 2 wherein X_1 comprises a C_6 aromatic ring.

7. (Withdrawn) The method of claim 6 wherein R_1 is H.

8. (Withdrawn) The method of claim 7 wherein the exogenous substrate is present in the solution at a concentration of between 0.01 and 100 millimolar.

9. (Currently Amended) A method of vasodilating a human blood vessel *in vitro*, the method comprising exposing *in vitro* an isolated blood vessel to be implanted into a human patient to a physiologically acceptable solution that comprises:

between 0.1 and 100 millimolar concentration of an exogenous substrate for an SSAO enzyme wherein the exogenous substrate has a chemical formula of



wherein R_1 is selected from H, OH, NH_2, and COOH, X_2 is selected from H, OH, NH_2, COOH, and alkyls having between one and three carbons, X_3 is selected from H, OH, NH_2, COOH, and alkyls having between one and three carbons, and wherein

(a) X_1 is a C_6 aromatic ring, or

(b) X_1 comprises a single C_6 aromatic ring and further comprises between one and eleven alkyl carbons; and,

a buffer having an osmolarity in the range of about 280 to about 350 millimolar that buffers the solution to maintain a pH in a range of about 7.0 to about 7.8.

10. (Canceled)

11. (Original) The method of claim 9 wherein the exogenous substrate is present in the solution at a concentration of between 0.1 and 10 millimolar.

12-55. (Canceled)

56. (New) The method of claim 2 wherein the concentration of the exogenous substrate is in the range of 0.1 to 10 millimolar.